



# Preface

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This guide provides instructions on how to operate your Cisco 4700 Series Application Control Engine (ACE) appliance in a single context or in multiple contexts. Multiple contexts use the concept of virtualization to partition your ACE into multiple virtual devices or contexts. The guide describes how to use the virtualization feature tools to closely and efficiently manage the system resources and users of the ACE, and the services you provide to your customers.

You can configure the ACE by using the following interfaces:

- The command-line interface (CLI), a line-oriented user interface that provides commands for configuring, managing, and monitoring the ACE.
- Device Manager graphic user interface (GUI), a Web browser-based GUI interface that provides a graphical user interface for configuring, managing, and monitoring the ACE.

This preface contains the following major sections:

- [Audience](#)
- [How to Use This Guide](#)
- [Related Documentation](#)
- [Symbols and Conventions](#)
- [Obtaining Documentation, Obtaining Support, and Security Guidelines](#)
- [Open Source License Acknowledgements](#)

# Audience

This guide is intended for the following trained and qualified service personnel who are responsible for configuring the ACE:

- Web master
- System administrator
- System operator

# How to Use This Guide

This guide is organized as follows:

Chapter	Description
<a href="#">Chapter 1, Overview</a>	Provides an overview of the basic concepts to partition your ACE into multiple virtual devices or contexts. It includes information about: <ul style="list-style-type: none"> <li>• Contexts</li> <li>• Domains</li> <li>• Role-Based Access Control (RBAC)</li> <li>• Resource Classes</li> </ul>
<a href="#">Chapter 2, Configuring Virtualization</a>	Describes how to configure the ACE to operate in either a single context or in multiple contexts, allocate resources, create domains, and create users and user roles.
<a href="#">Chapter 3, Displaying Virtualization Configuration and Statistics</a>	Describes how to display configuration and statistical information for the contexts configured on your ACE.

# Related Documentation

In addition to this document, the ACE documentation set includes the following:

<b>Document Title</b>	<b>Description</b>
<i>Release Note for the Cisco 4700 Series Application Control Engine Appliance</i>	Provides information about operating considerations, caveats, and command-line interface (CLI) commands for the ACE.
<i>Cisco Application Control Engine Appliance Hardware Installation Guide</i>	Provides information for installing the ACE appliance.
<i>Regulatory Compliance and Safety Information for the Cisco Application Control Engine Appliance</i>	Regulatory compliance and safety information for the ACE appliance.
<i>Cisco ACE 4700 Series Application Control Engine Appliance CLI Quick Configuration Note</i>	Describes how to use the ACE CLI to perform the initial setup and VIP load-balancing configuration tasks.
<i>Cisco 4700 Series Application Control Engine Appliance Device Manager GUI Quick Configuration Note</i>	Describes how to use the ACE Device Manager GUI to perform the initial setup and VIP load-balancing configuration tasks.

Document Title	Description
<i>Cisco 4700 Series Application Control Engine Appliance Administration Guide</i>	<p>Describes how to perform the following administration tasks on the ACE:</p> <ul style="list-style-type: none"> <li>• Setting up the ACE</li> <li>• Establishing remote access</li> <li>• Managing software licenses</li> <li>• Configuring class maps and policy maps</li> <li>• Managing the ACE software</li> <li>• Configuring SNMP</li> <li>• Configuring redundancy</li> <li>• Configuring the XML interface</li> <li>• Upgrading the ACE software</li> </ul>
<i>Cisco 4700 Series Application Control Engine Appliance Routing and Bridging Configuration Guide</i>	<p>Describes how to perform the following routing and bridging tasks on the ACE:</p> <ul style="list-style-type: none"> <li>• Configuring Ethernet ports</li> <li>• Configuring VLAN interfaces</li> <li>• Configuring routing</li> <li>• Configuring bridging</li> <li>• Configuring Dynamic Host Configuration Protocol (DHCP)</li> </ul>
<i>Cisco 4700 Series Application Control Engine Appliance Server Load-Balancing Configuration Guide</i>	<p>Describes how to configure the following server load-balancing features on the ACE:</p> <ul style="list-style-type: none"> <li>• Real servers and server farms</li> <li>• Class maps and policy maps to load balance traffic to real servers in server farms</li> <li>• Server health monitoring (probes)</li> <li>• Stickiness</li> <li>• Firewall load balancing</li> <li>• TCL scripts</li> </ul>

<b>Document Title</b>	<b>Description</b>
<i>Cisco 4700 Series Application Control Engine Appliance Web Optimization Configuration Guide</i>	Describes how to configure the web optimization features of the ACE. It also provides an overview and description of those features.
<i>Cisco 4700 Series Application Control Engine Appliance Security Configuration Guide</i>	Describes how to configure the following ACE security features: <ul style="list-style-type: none"> <li>• Security access control lists (ACLs)</li> <li>• User authentication and accounting using a Terminal Access Controller Access Control System Plus (TACACS+), Remote Authentication Dial-In User Service (RADIUS), or Lightweight Directory Access Protocol (LDAP) server</li> <li>• Application protocol and HTTP deep packet inspection</li> <li>• TCP/IP normalization and termination parameters</li> <li>• Network Address Translation (NAT)</li> </ul>
<i>Cisco 4700 Series Application Control Engine Appliance SSL Configuration Guide</i>	Describes how to configure the following Secure Sockets Layer (SSL) features on the ACE: <ul style="list-style-type: none"> <li>• SSL certificates and keys</li> <li>• SSL initiation</li> <li>• SSL termination</li> <li>• End-to-end SSL</li> </ul>
<i>Cisco 4700 Series Application Control Engine Appliance System Message Guide</i>	Describes how to configure system message logging on the ACE. This guide also lists and describes the system log (syslog) messages generated by the ACE.
<i>Cisco 4700 Series Application Control Engine Appliance Command Reference</i>	Provides an alphabetical list and descriptions of all CLI commands by mode, including syntax, options, and related commands.

Document Title	Description
<i>Cisco 4700 Series Application Control Engine Appliance Device Manager GUI Configuration Guide</i>	Describes how to use the Device Manager GUI, which resides in flash memory on the ACE, to provide a browser-based interface for configuring and managing the appliance.
<i>Cisco CSS-to-ACE Conversion Tool User Guide</i>	Describes how to use the CSS-to-ACE conversion tool to migrate Cisco Content Services Switches (CSS) running-configuration or startup-configuration files to the ACE.

## Symbols and Conventions

This publication uses the following conventions:

Convention	Description
<b>boldface</b> font	Commands, command options, and keywords are in <b>boldface</b> . Bold text also indicates a command in a paragraph.
<i>italic</i> font	Arguments for which you supply values are in <i>italics</i> . Italic text also indicates the first occurrence of a new term, book title, emphasized text.
{ }	Encloses required arguments and keywords.
[ ]	Encloses optional arguments and keywords.
{ x   y   z }	Required alternative keywords are grouped in braces and separated by vertical bars.
[ x   y   z ]	Optional alternative keywords are grouped in brackets and separated by vertical bars.
string	A nonquoted set of characters. Do not use quotation marks around the string or the string will include the quotation marks.
screen font	Terminal sessions and information the system displays are in <code>screen font</code> .

Convention	Description
<b>boldface screen font</b>	Information you must enter in a command line is in <b>boldface screen font</b> .
<i>italic screen font</i>	Arguments for which you supply values are in <i>italic screen font</i> .
^	The symbol ^ represents the key labeled Control—for example, the key combination ^D in a screen display means hold down the Control key while you press the D key.
< >	Nonprinting characters, such as passwords are in angle brackets.

Notes use the following conventions:



**Note**

Means *reader take note*. Notes contain helpful suggestions or references to material not covered in the publication.

Cautions use the following conventions:



**Caution**

Means *reader be careful*. In this situation, you might do something that could result in equipment damage or loss of data.

Warnings use the following conventions:



**Warning**

**Means possible physical harm or equipment damage. A warning describes an action that could cause you physical harm or damage the equipment.**

For additional information about CLI syntax formatting, see the *Cisco 4700 Series Application Control Engine Appliance Command Reference*.

# Obtaining Documentation, Obtaining Support, and Security Guidelines

For information on obtaining documentation, obtaining support, providing documentation feedback, security guidelines, and also recommended aliases and general Cisco documents, see the monthly *What's New in Cisco Product Documentation*, which also lists all new and revised Cisco technical documentation, at:

<http://www.cisco.com/en/US/docs/general/whatsnew/whatsnew.html>

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This product includes cryptographic software written by Eric Young (eay@cryptsoft.com).

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